

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62225 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Dec 2 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

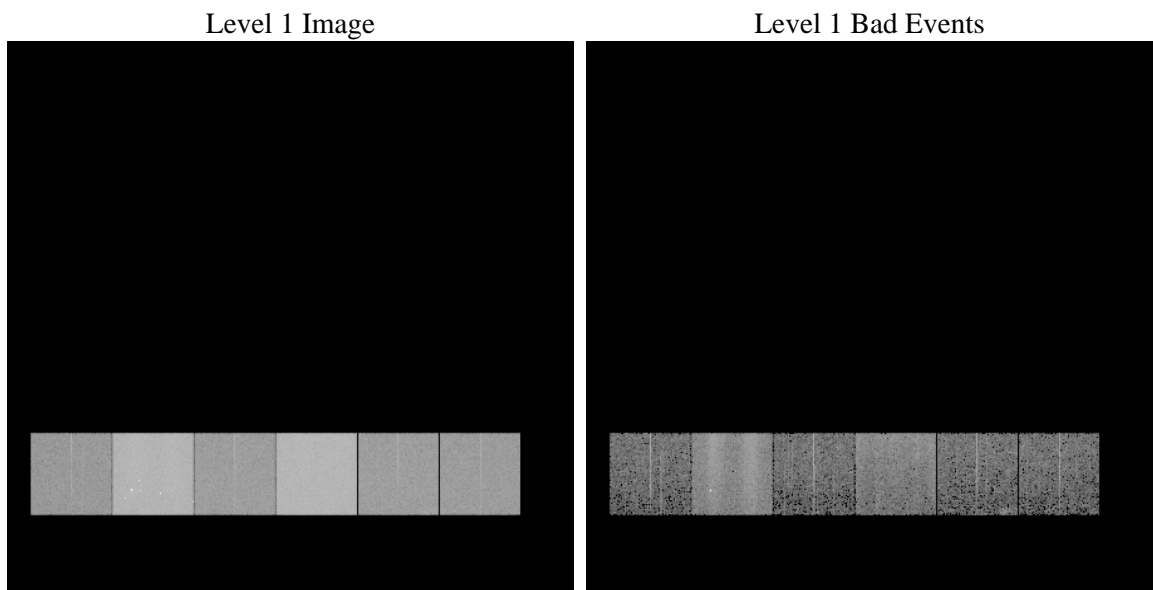
1 Front

seq_num	 	Sequence number
obs_id	62225	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA
dec_targ	0.0	Observer's specified target Dec
ra_nom	63.660727331743	Nominal RA
dec_nom	5.5671104736767	Nominal Dec
roll_nom	293.16135523445	Nominal Roll
revision	4	Processing version of data
ontime	2879.7642744035	Sum of GTIs [s]
livetime	2843.2989651751	Livetime [s]
ontime4	1094.0818608925	Sum of GTIs [s]
ontime5	3064.0483333543	Sum of GTIs [s]
ontime6	1230.1644513011	Sum of GTIs [s]
ontime7	2879.7642744035	Sum of GTIs [s]
ontime8	1223.764501147	Sum of GTIs [s]
ontime9	1200.8719413131	Sum of GTIs [s]
l2events	887257	Number of level 2 events

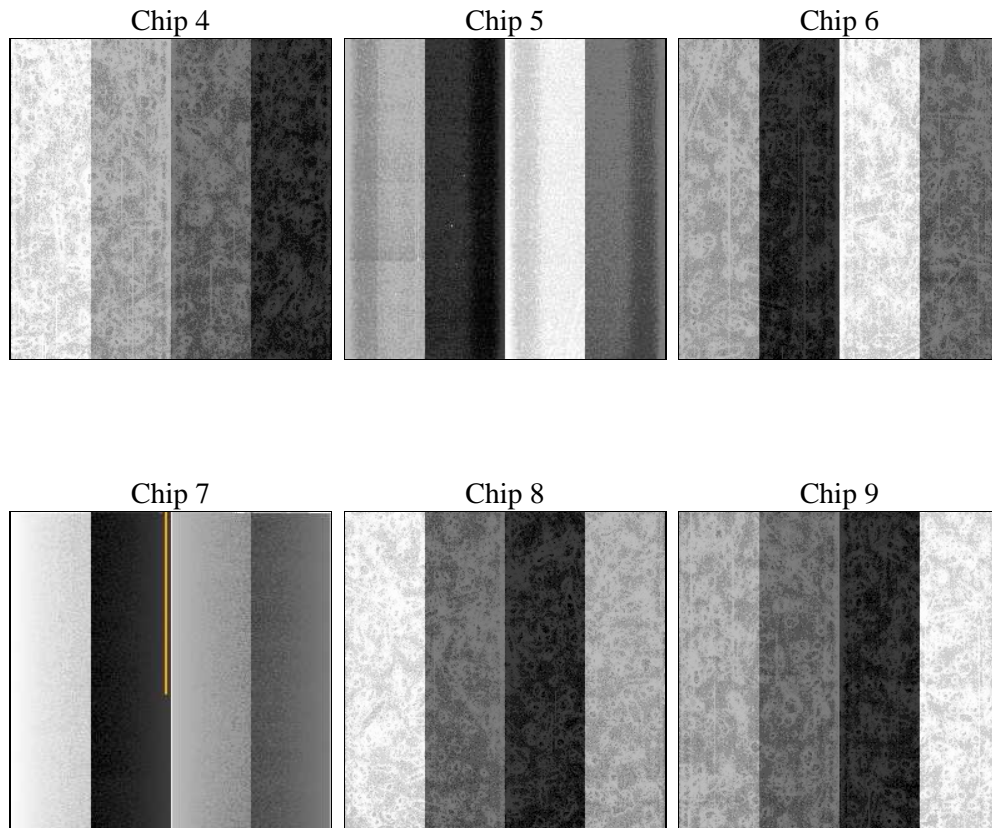
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.2	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	 		Scheduled observation exposure time
date	2009-12-02T20:54:28	Date and time of file creation	ontime	2879.7642744035
revision	3	Processing version of data	ontime4	1094.0818608925
			ontime5	3064.0483333543
			ontime6	1230.1644513011
			ontime7	2879.7642744035
			ontime8	1223.764501147
			ontime9	1200.8719413131
			l1events	1063024
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	107230	287780	126670	293371	128175	119798	grade 0 events	20215	25672	29178	46419	38684	31230
rejected events	19084	51855	19570	33429	19632	18228		18%	8%	23%	15%	30%	26%
rejected %	17%	18%	15%	11%	15%	15%	grade 1 events	98	123	108	106	153	120
								0%	0%	0%	0%	0%	0%
							grade 2 events	48687	93040	51739	74499	43551	46064
								45%	32%	40%	25%	33%	38%
							grade 3 events	2101	11971	3002	22632	4005	3268
								1%	4%	2%	7%	3%	2%
							grade 4 events	2054	10433	2955	20055	4012	3248
								1%	3%	2%	6%	3%	2%
							grade 5 events	893	5104	1005	4180	1088	1045
								0%	1%	0%	1%	0%	0%
							grade 6 events	16386	98176	21413	100139	19724	19154
								15%	34%	16%	34%	15%	15%
							grade 7 events	16796	43261	17270	25341	16958	15669
								15%	15%	13%	8%	13%	13%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	63.66072733174281	Alternating exposures requested	N	N
Pointing Dec	0	5.567110473676654	Primary exposure time	3.2	3.2
Pointing Roll	0.0	293.1613552344499			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	64229326.220835	64229325.452387			
Observation start date	2000-01-14T09:28:46	2000-01-14T09:28:45			
Observation end time	64236626.2711	64236625.502652			
Observation end date	2000-01-14T11:30:26	2000-01-14T11:30:25			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8797642744035

A.2 Comments

The focal plane temperature is approximately -110C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.